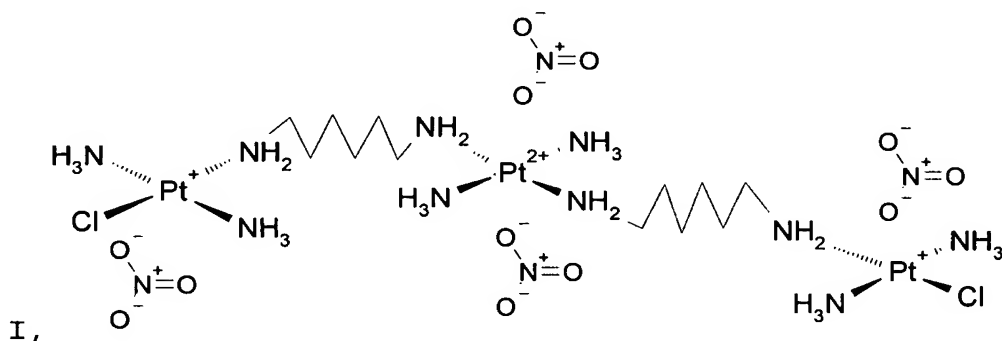


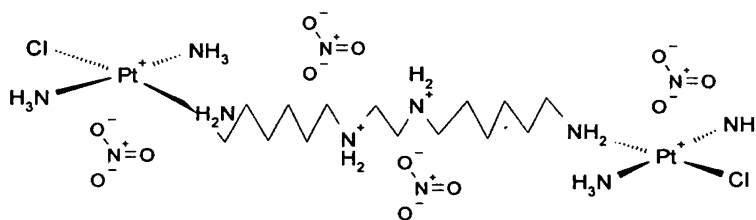
IN THE CLAIMS

1. (currently amended) Solid Lipid Nanoparticles of a platinum complex characterized by anionic ligands and ligands containing amino groups, comprising a platinum compound dissolved in an aqueous solution.

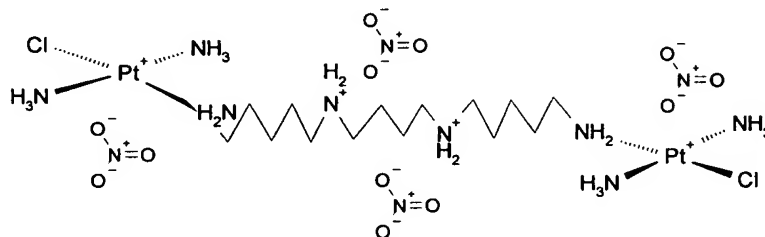
2. (previously presented) The Solid Lipid Nanoparticles of a platinum complex of claim 1 selected from the group consisting of trans-{bis[trans(diammine)(chloro)platinum (II) (μ -1,6-hexanediamine)]}diammineplatinum tetranitrate salt of formula I,

**Formula I**

bis{trans(diammine)(chloro)platinum(II)} μ -(1,16-diamino-7,10-diazaheptadecane-N1,N16) dinitrate salt 2HNO₃ of formula II,

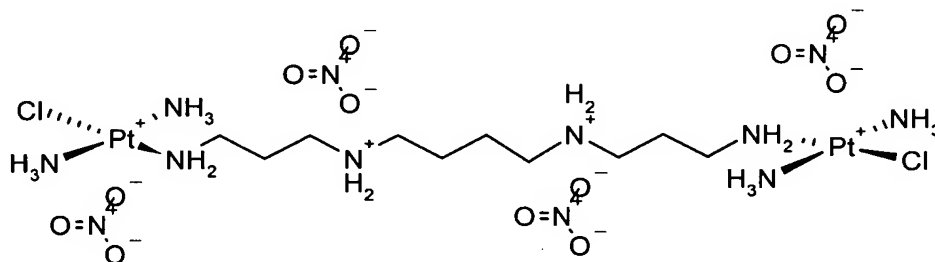
**Formula II**

bis{trans(diammine)(chloro)platinum(II)} μ -(1,16-diamino-6,11-diazahexadecane-N1,N16) dinitrate salt 2HNO₃ of formula III,



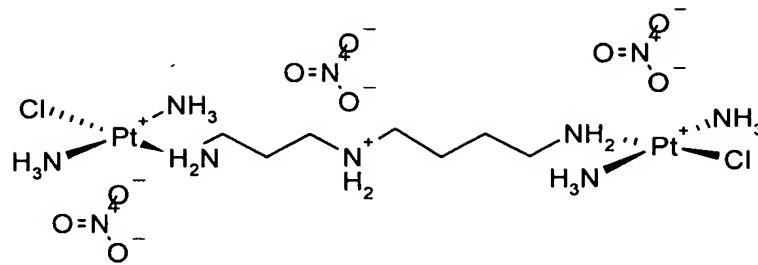
Formula III

bis{trans(diammine)(chloro)platinum(II)} μ -(1,12-diamino-4,9-diazadodecane-N1,N12) dinitrate salt 2HNO₃ of formula IV,



Formula IV

and bis{trans(diammine)(chloro)platinum (II)} μ -(1,8-diamino-4-azaoctane-N¹,N⁸) dinitrate salt HNO₃ of formula V



Formula V.

3. (currently amended) The Solid Lipid Nanoparticles of a platinum complex of claim 1 obtainable by a process comprising:

- a. preparing a first microemulsion by mixing a molten lipid, a surfactant, and optionally a co-surfactant and an aqueous solution of the platinum compound;
- b. preparing a solution by mixing a surfactant and optionally a co-surfactant in water, heating to complete solution, preferably at the same melting temperature of the lipid used in a) and adding a co-surfactant;
- c. dispersing the microemulsion obtained in a) into the solution obtained in b) obtaining a multiple microemulsion c);
- d. dispersing the microemulsion obtained in c) in aqueous medium at a temperature ranging from 0.5°C to 4°C obtaining a dispersion of solid lipid microspheres; and

- e. washing with aqueous medium through ultrafiltration the obtained lipid microspheres obtained in d) and lyophilizing, optionally in the presence of a bulking agent and of a cryoprotecting agent.

4. (currently amended) A process for the preparation of the Solid Lipid Nanoparticles of a platinum complex of claim 1, comprising:

- a. preparing a first microemulsion by mixing a molten lipid, a surfactant, and optionally a co-surfactant and an aqueous solution of the platinum complex;
- b. preparing a solution by mixing a surfactant and optionally a co-surfactant in water, ~~heating to complete solution~~, preferably at the same melting temperature of the lipid used in a) and adding a co-surfactant;
- c. dispersing the microemulsion obtained in a) into the solution obtained in b) obtaining a multiple microemulsion c);
- d. dispersing the microemulsion obtained in c) in aqueous medium at a temperature ranging from 0.5°C to 4°C obtaining a dispersion of solid lipid microspheres; and
- e. washing with aqueous medium through ultrafiltration the obtained lipid microspheres obtained in d) and lyophilizing, optionally in the presence of a bulking agent and of a cryoprotecting agent.

5. (previously presented) A pharmaceutical composition comprising the Solid Lipid Nanoparticles of a platinum complex of claim 1.

6. (previously presented) A method of treating a patient affected by cancer sensitive to platinum complexes, which comprises administering to said patient a therapeutically effective amount of the Solid Lipid Nanoparticles of a platinum complex of claim 1.